

DESCRIPTION

The AlphaGuard BIO Top Coat is a two-part, bio-based, polyurethane roof coating. To be applied over AlphaGuard BIO Base Coat.

USAGE/PURPOSE

The AlphaGuard BIO System can be used in a variety of projects, including:

- Roof restoration
- IRMA
- Vegetative roof systems
- Can be applied over some select waterproofing membranes. Refer to Tremco

AlphaGuard BIO Top Coat is used as a surfacing over AlphaGuard BIO Base Coat and reinforcement.

FEATURES & BENEFITS

- High bio content makes product sustainable and environmentally friendly.
- Reflective top coat lowers surface temperatures. Potential energy savings.
- Catalysed cure results in faster cure times than similar one-component products.
- Suitable for use over many substrates/roof types.
- 100% solids.
- Low VOC and low odour. Can be used in limited access areas.
- Resistant to a wide variety of harmful chemicals.

APPLICABLE STANDARDS

Meets requirements of AS4654.1 2012.

PACKAGING

18.9L (Part A) 3.8L (Part B) kit

Part A - 8.31Litres in a 18.9Litre pail. Part B - 3.40Litres in a 3.8Litre pail. Giving a mixed quantity of 11.71Litres

COLOURS

White
Grey



TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL VALUES
Water Vapour Wet Cup Transmission ¹	ASTM E 96	1.32g/m ² /day
Volume Solids	ASTM D 2697	100%
Weight Solids	ASTM D 1644	100%
Volatile Organic Content	ASTM D 3960	1 g/l (on A + B mix)
Viscosity	ASTM D 2196	2,500 - 5,000 cp

SKIN & OVER-COAT TIMES

Skin Time at: 25°C/ 50% RH 2-3 hours

Over-Coat Time at: 25°C/ 50% RH 7-8 hours

Note: Both skin & overcoat times are temperature-dependent. Higher temperatures will result in reduced skin/overcoat times, lower temperatures may result in extended skin/overcoat times.

POT LIFE

20-25 minutes (25°C/50% RH)

*Temperature dependent - Increasing temperature reduces expected pot-life

SHELF LIFE

12 months in unopened containers.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location from harsh weather conditions at temperatures ranging from 15°C-26°C and low humidity. Storage temperatures must not exceed 43°C. Do not store in direct sunlight.

LIMITATIONS

- ❑ Do not apply when ambient temperatures are below 7°C.
- ❑ Do not apply when overnight temperature drops below 4°C.
- ❑ Do not adhere to expanded polystyrene or extruded polystyrene.
- ❑ Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks.
- ❑ Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and silicone-based coatings and sealants.

SURFACE PREPARATION

AlphaGuard BIO Base Coat must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris. AlphaGuard BIO Base Coat should be top-coated within 72 hours of base coat application.

MIXING

Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

Mix Part A (White Label) for 1 minute before adding Part B (White Label). After adding Part B, mix the combined materials for a minimum of 2 minutes moving the mix blade from top to bottom. Taking care not to add air into the mix. Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. Never fully invert empty pails in attempt to drain material. Will result in non-curing material.

Do not break down kits into smaller quantities - MIX ENTIRE KIT.

REPAIRS

If AlphaGuard BIO is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system. Allow suggested cure time of repairs before applying AlphaGuard BIO to the roof surface.

PRIMERS

Refer to the primer matrix chart or specification details prior to application.

GRADE

Brush/roller/squeegee.

ACCEPTABLE ROOF SURFACES/SUBSTRATES

Properly applied and cured AlphaGuard BIO Base Coat and reinforcement.

NON-SKID APPLICATION

In areas where a slip-resistant surface is required, 16-30 silica sand can be broadcast at 0.5-0.7kg/m² and back-rolled in an additional layer of AlphaGuard BIO Top Coat.

COVERAGE RATE - MINIMUM REQUIREMENTS

Substrates/Surfaces	Wet mm	m ² /L	m ² /Kit
Top Coat	0.60	1.63	18.4
Top Coat Non-Skid	0.81	1.22	13.8

* ALL COVERAGE RATES ARE APPROXIMATE & VARY WITH SUBSTRATE CONDITION

NB: Non-Skid coat is in addition to the Top Coat layer.

CLEAN UP

Before the product cures, clean surfaces and equipment with Isopropyl Alcohol.

MAINTENANCE

Your local Tremco Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

HEALTH & SAFETY PRECAUTIONS

Use AlphaGuard BIO System Coatings with adequate ventilation. The Material Safety Data Sheet (MSDS) and container labels must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755.

GUARANTEE/WARRANTY

Tremco Inc. warrants AlphaGuard BIO to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, AlphaGuard BIO in standard packaging to replace any AlphaGuard BIO proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for AlphaGuard BIO. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within 12 months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

AlphaGuard BIO can be used in a system configuration. Talk to your local Tremco Representative about system roof warranties.

STATEMENT OF POLICY AND RESPONSIBILITY

Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for the resultant damages, and no Tremco Representative is authorised to vary this disclaimer.